## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) International application No. Priority date (day/month/year) 21.02.2005 19.02.2004 PCT/B2005/000534 International Patent Classification (IPC) or both national classification and IPC C07C213/02, C07C217/54 Applicant PPG-SIPSY This opinion contains indications relating to the following items: 1 ☑ Box No. I Basis of the opinion ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. Name and mailing address of the ISA: **Authorized Officer** 



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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/000534

|    | Box N   | o. I Basis of the opinion  |  |
|----|---|--|--|
| 1. | With regard to the <b>language</b> , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. |  |  |
|    | la  | nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).  |  |
| 2. | With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:   |  |  |
|    | a. type   | type of material:  |  |
|    |   | a sequence listing   |  |
|    |   | table(s) related to the sequence listing   |  |
|    | b. forn   | format of material:  |  |
|    |   | in written format  |  |
|    |   | in computer readable form  |  |
|    | c. time   | ime of filing/furnishing:  |  |
|    |   | contained in the international application as filed.   |  |
|    |   | filed together with the international application in computer readable form.   |  |
|    |   | furnished subsequently to this Authority for the purposes of search.   |  |
| 3. | h:<br>C   | addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as oppropriate, were furnished. |  |
| 4  | Additional comments:  |  |  |

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/B2005/000534

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-24

No:

Claims

Inventive step (IS)

Yes: Claims

1-24

Claims No:

Industrial applicability (IA)

Yes: Claims

1-24

No: Claims

2. Citations and explanations

see separate sheet

D1: WO 98/27055 A (TECHNION RES & DEV FOUNDATION; WEINSTOCK ROSIN MARTA (IL); YISSUM RES) 25 June 1998 (1998-06-25)

- 1. D1 discloses the preparation of the title compounds starting from an optically active unsubstituted alpha-amino-indane (I) with a four step process.
- Presently claimed process starts already from the substituted en-amide derivative
  according to formula (III) and using further different steps: asymmetric hydrogenation
  of the double bond to give the amide (II) and subsequent hydrolysis of the amide
  derivative (II) to give the title compound (I).
   The subject matter of present claims 1 to 24 is thus considered to be novel over said
  prior art (PCT Article 33.2).
- 3. In view of D1 the underlying problem is defined by the provision of a process which results in higher yields compared with the process of D1. The solution of this problem is represented by the claimed process whereby the starting or intermediate compound of formula III represents the most important feature. The yields obtained by the claimed process are high. No hint can be found in the prior art that a compound acc. to formula (III) can be used as starting compound in a process using different steps for preparing the title compounds.
  - The subject matter of present claims 1 to 24 is thus considered to be based on an inventive step over said prior art (PCT Article 33.3).
- 4. Industrial applicability can be acknowledged for all claims 1 to 24 (PCT Article 33.4).